

## **ABSTRACT**

A housing for an implantable medical device in the shape of a hollow magnetic field concentrating tube about which an electrically conductive wire coil is wound and within which medical device electronics is housed. The tube, preferably made of ferrite, is encased in a protective sleeve formed of a material that is impervious to body fluids. The coil provides an electrical output as a result of being exposed to a varying magnetic field that is concentrated around the coil by virtue of the field concentrating tube. The output of the coil is utilized as part of a power supply for the medical device electronics. The sleeve has a generally cylindrical cross-section having an outside diameter of about 3.175 mm and an axial length in the range of about 3.2 mm to 8 mm.